KATS COATINGS

TECHNICAL DATA SHEET

4088

DIPPABLE RUST PROTECTIVE COATING - FLAT BLACK

KATS 4088 is a water based coating utilizing renewable resource base polymer technology that prevents rust and enhances appearance. It is a modified version of 4041 with improvement in anti settlement characteristic as well as rust protection and dry time. It is suitable for use on both ferrous and nonferrous metals.

KATS 4088 is designed for dip application.

The surfaces to be protected should be clean and dry. Apply KATS 4088 in a good ventilated area without excessive wind. Before using, review MSDS and wear proper gear.

Ambient/Surface temperature..... 45° - 100°F (7° - 38°C)
Ideal Surface Temperature..... 60° - 80°F (16° - 27°C)
Note: Insure the coating is dry before exposing to the elements. To minimize temperature/humidity variables, heated force drying is recommended to improve early water resistance.

Wet Film Thickness ... 2.5 mil (63.5 microns)
Dry Film thickness ..... 0.5 mil (12.7 microns)

Typical coverage..... 640 ft^2/gal (15.7 m^2/l)

Mix before and while using, but do not overly mix/sheer/pump.

Do not allow fluid to freeze.

If not being used, cover the container/dip tank well to retain product's integrity and stability.

Ideal storage condition:..... 45° - 85°F (7° - 29³C)

BENEFITS:

- 0.5 lb/gal (60 grams per liter) VOC
- Water based
- Covers light rust
- Protects up to 12 months
- Quick drying
- No fire hazard
- HAPs-free
- Excellent adhesion to various surfaces
- Environmentally safe

APPLICATIONS:

KATS 4088 has been designed specially for protection of leaf springs and similar metal surfaces, but it is suitable for use on a wide variety of metal stock and finished goods. If the surface is rough and it requires higher performance, double dipping is recommended for proper coverage.

For application instruction, see reverse side.

TEST METHOD	DESCRIPTION	TYPICAL CHARACTERISTIC
ASTM D-2247	**Humidity Test** 100% R.H. @ 100°F, 500 hr	Pass
ASTM D-3794	**Viscosity** Zahn Cup #2 @ 72°F (22°C)	18 - 40 seconds
ASTM D-1475	**Density**	9.0 - 9.1 lb/gal (1.08 - 1.09 g/cm^3)

The above are average values. Minor variations which do not affect product performance are to be expected in normal manufacturing.

PACKAGING

260 Gallon Totes	55 Gallon Drums	5 Gallon Pails

A Division of **Whitmore**
930 Whitmore Drive • Rockwall, Texas 75087 • USA • (972) 771-1000 • 1-800-699-6318
An ISO 9001 and ISO 14001 registered company • www.katscoatings.com

TDS-125 2-10-15 jk/bg

Application Instruction

A. Mixing Container Before Transferring To Dip Tank

1. Mix about 30 minutes at slow speed. If too high where it creates a lot of splashing, mix for about 5-10 minutes.
2. Turn the mixer off. Using panel/small spring part, dip the part and let it dry. If the appearance is:
   Flat Gloss -- stop mixing and transfer to dip tank
   Somewhat Glossy - Repeat #1 and #2

See note below.

3. Start transferring to the dip tank.

B. Mixing Dip Tank During Operation

1. Mix about 30 minutes at slow speed. If too high where it creates a lot of splashing, mix for about 5-10 minutes.
2. Turn the mixer off. Using panel/small spring part, dip the part and lit it dry. If the appearance is:
   Flat Gloss -- stop mixing and transfer to dip tank
   Somwhat Glossy - Repeat #1 and #2

See note below.

3. Start running dipping operation.

Note: The surrounding and liquid temperature can impact the speed of phase separation, but normally @ 72°F, dipping can be done without additional mixing for about 6-8 hours, assuming continuous dipping is in place. To check whether it needs to mix during operation is to do the step #2.

Note: Although the mixing time will be dependent on the customer's environment situation and very place to place, upon having few checks, the mixing time can be fine tuned and implemented in daily operation without running the test.

Important: Extraneous mixing can reverse the stability of the suspended pigment, where it breaks additive bond, and can potentially give hard settlement, which is irreversible.

C. Drying Requirement

1. Insure the parts are free from any oils/water and dry. Preferably, if the parts are warmer, it can assist in faster drying later stage.
2. After dipping, expose the parts to multi fans, which are recommended to remove as much water as possible, 15-17 minutes. Heated fan is preferred. Any type of forced dry can greatly minimize dry time.
3. After dried, handle accordingly.

Note: Multi fans are needed to insure all surfaces are exposed with air movement.